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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,433	12/03/2003	Heung-Yeop Jang	Q77246	5326

23373 7590 12/11/2007
SUGHRUE MION, PLLC
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WASHINGTON, DC 20037

EXAMINER

COLUCCI, MICHAEL C

ART UNIT	PAPER NUMBER
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2626

MAIL DATE	DELIVERY MODE
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12/11/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief	Application No. 10/725,433	Applicant(s) JANG ET AL.	
	Examiner Michael C. Colucci	Art Unit 2626	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 26 November 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☒ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☐ The period for reply expires _____ months from the mailing date of the final rejection.
 b) ☒ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because
 (a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);
 (b) ☐ They raise the issue of new matter (see NOTE below);
 (c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 (d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
 5. ☐ Applicant's reply has overcome the following rejection(s): _____.
 6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
 7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.
 The status of the claim(s) is (or will be) as follows:
 Claim(s) allowed: _____.
 Claim(s) objected to: _____.
 Claim(s) rejected: _____.
 Claim(s) withdrawn from consideration: _____.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
 9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
 10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

11. ☒ The request for reconsideration has been considered but does NOT place the application in condition for allowance because:
See Continuation Sheet.
 12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). _____
 13. ☐ Other: _____.


RICHMOND DORVIL
SUPERVISORY PATENT EXAMINER

Continuation of 11. does NOT place the application in condition for allowance because: In response to Remarks on (page 7 paragraph 3) and (page 8 paragraph 1):

In response to Remarks on (page 7 paragraph 3) and (page 8 paragraph 1):

Arean teaches components of an audio signal that are quantized coefficients separated into a number of factor bands or gain factor bands. Arean teaches that quantization coefficients can be rescaled based on transform parameters such as a quantization step size in that factor band. Arean also teaches a perceptual model that is used in conjunction with a frequency domain threshold and masking threshold (maximum amount of noise that can be added to a signal without perceptibly altering it). Arean teaches a computed perceptual threshold value used in the quantization process to allocate noise for the frequency domain coefficients from a filter bank, where a quantization step size is adjusted according to the perceptual threshold value to meet noise requirements as well as a target bit rate for the signal. Arean teaches that the target bit rate is related to the bandwidth and the variance distribution of the source to be coded, where the alteration of coefficients are related to the variance as shown in fig. 10A. Therefore when coefficients are adjusted with respect to a target bit rate, the variance will change, thus altering the scaling of the entire signal, even though each gain factor band can be altered individually as well.

In addition, Suzuki teaches a bit allocation task, where signal energy or peak values are calculated based on critical bands are divided into a sub-division of bands, which take into account a masking effect. Suzuki also teaches that critical band energy is found by adding the amplitudes of spectral components in respective bands, where amplitude peak values or mean values can replace signal energy in the respective bands. Suzuki teaches convolution that uses a weighting function that takes into account masking effects for cancelling or aliasing noise based on frequency characteristics. Suzuki also teaches that it is important to utilize the psychoacoustic characteristics when processing encoded data.

Therefore the combined teachings of Arean and Suzuki would produce the process of controlling both the gain/scaling of a signal for the signal as a whole and in the individual gain factor bands. Also the combined teaching would demonstrate matching quantization distribution to an approximated energy distribution.